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Quarterly Groundwater Monitoring Report - Fourth Quarter 2009
ConocoPhillips Facility No. 255028 (RM&R #01344)
Washington Department of Ecology Voluntary Cleanup Program ID #NW1290
247 D Street
Blaine, Washington

Stantec Project No.:
212301494

Submitted to:
Ms. Jing Liu
Washington State Department of Ecology
3190 160th Avenue SE
Bellevue, WA 98008-5452

Submitted by:
Stantec Consulting Corporation
12034 134th Court NE, Suite 102
Redmond, WA 98052

Prepared on behalf of:
ConocoPhillips Company

January 7, 2010

Dear Ms. Liu:

Stantec Consulting Corporation (Stantec) is pleased to present this quarterly groundwater monitoring report to the Washington State Department of Ecology (DOE) Voluntary Cleanup Program (VCP) on behalf of the ConocoPhillips Company (ConocoPhillips). This report describes the results of groundwater monitoring activities performed by Stantec during the Fourth Quarter of 2009 (the reporting period) at ConocoPhillips Facility No. 255028 (RM&R #01344; VCP #NW1290) located at 247 D Street in Blaine, Washington (the Site).

GROUNDWATER MONITORING ACTIVITIES

Groundwater monitoring activities during the reporting period were performed on December 8, 2009. Groundwater monitoring activities were performed in accordance with Stantec's protocols for groundwater monitoring events (Attachment A).

Seven groundwater monitoring wells were gauged (MW-1, MW-2A, MW-3, MW-4, and MW-6 through MW-8) and four groundwater monitoring wells (MW-3, MW-4, MW-7, and MW-8) were sampled. These activities are described below.

Monitoring Well Gauging

Seven groundwater monitoring wells were gauged: MW-1, MW-2A, MW-3, MW-4, and MW-6 through MW-8. Monitoring wells were gauged for the presence of liquid phase hydrocarbons (LPH) and depth-to-groundwater prior to purging and sampling. LPH was not measured in the groundwater monitoring wells at thicknesses greater than or equal to 0.01 feet. The depth-to-groundwater ranged from 1.70 feet (MW-2A) to 4.80 feet (MW-1) below the top of casing (TOC). Depth-to-groundwater data was used to calculate the groundwater elevation in each well and evaluate the groundwater flow direction and gradient. Historical groundwater gauging data and gauging data from the reporting period are summarized in Table 1. Well locations and groundwater flow direction are shown on Figure 1. Based on these data, the inferred groundwater flow directions are to the southwest and southeast away from an apparent recharge area in the north central portion of the site and at an approximate gradient of 0.01 feet per foot (ft/ft).

Monitoring Well Purging

Wells intended to be sampled were purged after gauging. Groundwater was purged from the wells using low-flow methods, which included using a peristaltic pump and dedicated polyethylene tubing. Water quality parameters were measured during purging and recorded on

field data sheets (Attachment B). Purged groundwater and rinsate/decontamination water were stored on site in a Department of Transportation (DOT)-approved, steel drum pending laboratory characterization and off site disposal.

Monitoring Well Sampling

Following purging operations, groundwater samples were collected using a peristaltic pump and placed directly into pre-cleaned sample containers provided by an independent laboratory.

Once the sample containers were filled and sealed, they were labeled with the pertinent sampling information, and placed on ice in an insulated cooler for delivery under chain-of-custody documentation to an independent laboratory.

CHEMICAL ANALYSES AND RESULTS

Chemical Analyses

Groundwater samples collected during the reporting period were submitted to Pace Analytical Services, Inc. (Pace) in Seattle, Washington for the following chemical analyses:

- Benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary-butyl ether (MTBE) and halogenated volatile organic compounds (HVOCs) using Environmental Protection Agency (EPA) Method 8260B.

Chemical analyses results are described below. A copy of the certified laboratory analytical report and chain-of-custody documentation from Pace are included in Attachment C.

Chemical Analyses Results

Historical chemical analyses results and those from the reporting period are summarized in Table 1. Analytical results for TPH-G, TPH-D, TPH-O, BTEX, MTBE, and select HVOCs are illustrated on Figure 2.

A summary of the analytical results exceeding Model Toxics Control Act (MTCA) Method A cleanup levels is provided below. Analytical results not described below did not exceed MTCA Method A cleanup levels.

- Vinyl chloride was detected in MW-7 and MW-8 at concentrations of 2.1 and 0.31 micrograms per liter (µg/L), respectively, which exceed the MTCA Method A cleanup

level of 0.2 µg/L. These results are generally consistent with data from other recent groundwater monitoring events.

It should be noted that cis-1,2-Dicholoroethene (cis-1,2-DCE) was detected in MW-4, MW-7, and MW-8 at concentrations of 11.1, 1.4 and 6.7 µg/L, respectively. There is no default MTCA Method A cleanup level for cis-1,2-DCE.

Laboratory Quality Assurance/Quality Control (QA/QC)

A copy of the analytical report for the samples collected during the reporting period is included in Appendix C. Please refer to the analytical report for a description of QA/QC methods and potential concerns (if any) that were identified during chemical analysis.

WASTE DISPOSAL

Purge and rinsate water generated during the monitoring and sampling event were temporarily stored on site in a labeled, DOT-approved, steel drum. The drum and its contents will be transported off-site to a licensed disposal or recycling facility by a licensed ConocoPhillips-approved vendor A copy of the signed waste manifest or other disposal documentation will be provided under a separate cover.

CONCLUSIONS

Concentrations of vinyl chloride in MW-7 and MW-8 exceeded the MTCA Method A cleanup levels. Cis-1,2-DCE was detected in MW-4, MW-7, and MW-8; however, there is no default MTCA Method A cleanup level for cis-1,2-DCE. The reported results are generally consistent with data from other recent groundwater monitoring events.

LIMITATIONS AND CERTIFICATIONS

This report was prepared in accordance with the scope of work outlined in Stantec's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of ConocoPhillips Company for the express purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Stantec. To the extent that this report is based on information provided to Stantec by third parties, Stantec may have made efforts to verify this third party information, but Stantec cannot guarantee the completeness or accuracy of this

information. The opinions expressed and data collected are based on the conditions of the site existing at the time of the field investigations. No other warranties, expressed or implied are made by Stantec.

Prepared by:

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Staff Scientist

Reviewed by:

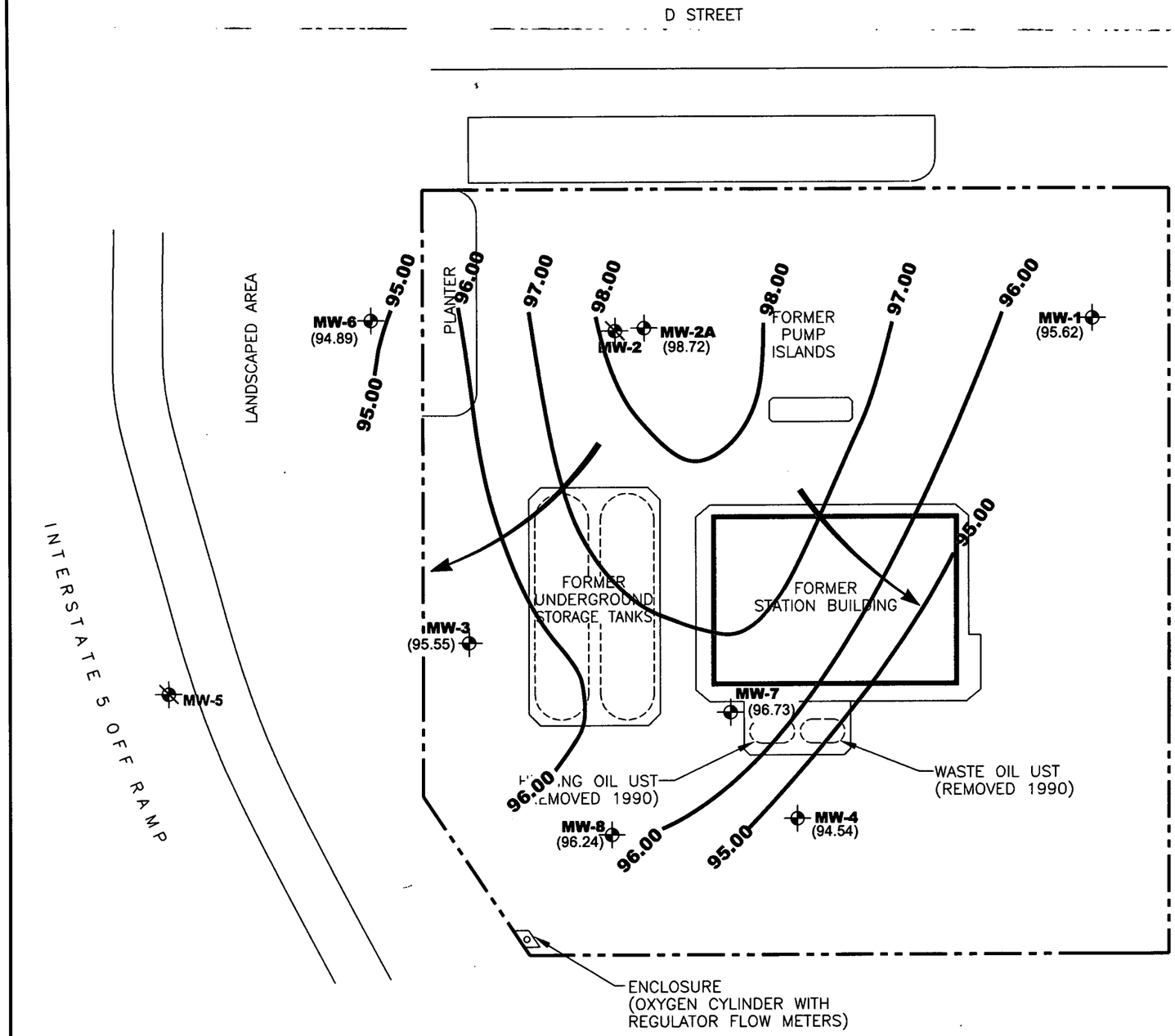
Jeffrey S. Thompson, L.G., L.E.G.
Principal Geologist

ATTACHMENTS

Figure 1 Site Plan with Groundwater Elevations (December 8, 2009)
Figure 2 Site Plan with Analytical Results (December 8, 2009)

Table 1 Cumulative Summary of Groundwater Elevations and Sample Analytical Results

Attachment A Field and Laboratory Procedures
Attachment B Field Data Sheets
Attachment C Certified Laboratory Analytical Report and Chain-of-Custody Documentation



LEGEND

- SITE BOUNDARY
- MW-1 — MONITORING WELL LOCATION AND ID
- MW-2 — DESTROYED OR ABANDONED MONITORING WELL LOCATION AND ID

GROUNDWATER

- (95.62) GROUNDWATER ELEVATION (FEET)
- INFERRED GROUNDWATER FLOW DIRECTION
- 96.00 — GROUNDWATER ELEVATION CONTOUR (FEET)
  CONTOUR INTERVAL = 1.00 FT

NOTE:

1). ALL LOCATIONS ARE APPROXIMATE.

N

0 20 40

APPROXIMATE SCALE IN FEET

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FOR: ConocoPhillips
FACILITY NO. 255028 (RM&R 1344)
247 D STREET
BLAINE, WASHINGTON

SITE PLAN WITH GROUNDWATER ELEVATIONS (DECEMBER 8, 2009)

FIGURE: **1**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
212302228	DJH	TP	CG	12/21/09

FILEPATH:K:\1-CLIENTS\ConocoPhillips\01CP\1344-Blaine (5028)\SOIL&GW-09\DEC09\CP-5028(1344)_909(fig1&2).dwg|dheller|Dec 23, 2009 at 12:02|Layout: F1-GWE (4Q)

D STREET

PLANTER

LANDSCAPED AREA

FORMER PUMP ISLANDS

FORMER UNDERGROUND STORAGE TANKS

FORMER STATION BUILDING

HEATING OIL UST (REMOVED 1990)

WASTE OIL UST (REMOVED 1990)

ENCLOSURE (OXYGEN CYLINDER WITH REGULATOR FLOW METERS)

TE 5 OFF RAMP

MW-1 MW-2 MW-2A MW-3 MW-4 MW-5 MW-6 MW-7 MW-8

MW-6	3/30/09	6/15/09	9/28/09	12/8/09
TPH-G	<50.0	<50.0	<50.0	–
TPH-D	–	<78	<76.9	–
TPH-O	–	<390	<385	–
B	<1.0	<1.0	<1.0	–
T	<1.0	<1.0	<1.0	–
E	<1.0	<1.0	<1.0	–
X	<3.0	<3.0	<3.0	–
MTBE	<1.0	2.1	2.6	–
TCE	<1.0	<1.0	<1.0	–
cis 1,2-DCE	<1.0	<1.0	<1.0	–
CA	<1.0	<1.0	<1.0	–
1,1-DCA	<1.0	<1.0	<1.0	–
1,2-DCA	<1.0	<1.0	<1.0	–
VC	<0.10	<0.10	<0.20	–

MW-1	3/30/09	6/15/09	9/28/09	12/8/09
TPH-G	<50.0	<50.0	<50.0	–
TPH-D	–	<79	<77.7	–
TPH-O	–	<400	<388	–
B	<1.0	<1.0	<1.0	–
T	<1.0	<1.0	<1.0	–
E	<1.0	<1.0	<1.0	–
X	<3.0	<3.0	<3.0	–
MTBE	2.0	1.4	1.9	–
TCE	<1.0	<1.0	<1.0	–
cis 1,2-DCE	<1.0	<1.0	<1.0	–
CA	<1.0	<1.0	<1.0	–
1,1-DCA	<1.0	<1.0	<1.0	–
1,2-DCA	<1.0	<1.0	<1.0	–
VC	<0.10	<0.10	<0.10	–

MW-2A	3/30/09	6/15/09	9/28/09	12/8/09
TPH-G	<50.0	<50.0	<50.0	–
TPH-D	–	<78	<77.7	–
TPH-O	–	<390	<388	–
B	<1.0	<1.0	<1.0	–
T	<1.0	<1.0	<1.0	–
E	<1.0	<1.0	<1.0	–
X	<3.0	<3.0	<3.0	–
MTBE	<1.0	<1.0	<1.0	–
TCE	<1.0	<1.0	<1.0	–
cis 1,2-DCE	<1.0	<1.0	<1.0	–
CA	<1.0	<1.0	<1.0	–
1,1-DCA	<1.0	<1.0	<1.0	–
1,2-DCA	<1.0	<1.0	<1.0	–
VC	<0.10	<0.10	<0.10	–

MW-7	3/30/09	6/15/09	9/28/09	12/8/09
TPH-G	<50.0	<50.0	<50.0	–
TPH-D	–	<78	<77.3	–
TPH-O	–	<390	<386	–
B	1.3	1.2	<1.0	2.3
T	<1.0	<1.0	<1.0	<1.0
E	<1.0	<1.0	<1.0	<1.0
X	<3.0	<3.0	<3.0	<3.0
MTBE	<1.0	<1.0	<1.0	<1.0
TCE	1.2	**5.1**	<1.0	<1.0
cis 1,2-DCE	<1.0	9.9	11.0	1.4
CA	<1.0	<1.0	<1.0	<1.0
1,1-DCA	<1.0	<1.0	<1.0	<1.0
1,2-DCA	<1.0	<1.0	<1.0	<1.0
VC	**1.8**	**1.1**	**1.2**	**2.1**

MW-4	3/30/09	6/15/09	9/28/09	12/8/09
TPH-G	<50.0	<50.0	<50.0	–
TPH-D	–	<77	<77.7	–
TPH-O	–	<380	<388	–
B	<1.0	<1.0	<1.0	<1.0
T	<1.0	<1.0	<1.0 MO	<1.0
E	<1.0	<1.0	<1.0	<1.0
X	<3.0	<3.0	<3.0 MO	<3.0
MTBE	<1.0	<1.0	<1.0	<1.0
TCE	<1.0	<1.0	<1.0	<1.0
cis 1,2-DCE	<1.0	5.7	10.6	11.1
CA	<1.0	<1.0	<1.0	<1.0
1,1-DCA	<1.0	<1.0	<1.0 MO	<1.0
1,2-DCA	<1.0	<1.0	<1.0	<1.0
VC	**0.40**	<0.10	**0.74**	<0.20

MW-8	3/30/09	6/15/09	9/28/09	12/8/09
TPH-G	<50.0	<50.0	<50.0	–
TPH-D	–	<77	<77.3	–
TPH-O	–	<380	<386	–
B	<1.0	<1.0	<1.0	<1.0
T	<1.0	<1.0	<1.0	<1.0
E	<1.0	<1.0	<1.0	<1.0
X	<3.0	<3.0	<3.0	<3.0
MTBE	9.8	8.3	12.3	5.4
TCE	1.4	1.2	<1.0	1.5
cis 1,2-DCE	<1.0	8.9	9.4	6.7
CA	<1.0	<1.0	<1.0	<1.0
1,1-DCA	<1.0	<1.0	<1.0	<1.0
1,2-DCA	<1.0	<1.0	<1.0	<1.0
VC	**1.4**	**1.1**	**1.1**	**0.31**

MW-3	3/30/09	6/15/09	9/28/09	12/8/09
TPH-G	<50.0	<50.0	<50.0	–
TPH-D	–	<77	<77.7	–
TPH-O	–	<380	<388	–
B	<1.0	<1.0	<1.0	<1.0
T	<1.0	<1.0	<1.0	<1.0
E	<1.0	<1.0	<1.0	<1.0
X	<3.0	<3.0	<3.0	<3.0
MTBE	2.5	<1.0	<1.0	1.0
TCE	<1.0	<1.0	<1.0	<1.0
cis 1,2-DCE	<1.0	<1.0	<1.0	<1.0
CA	<1.0	<1.0	<1.0	<1.0
1,1-DCA	<1.0	<1.0	<1.0	<1.0
1,2-DCA	<1.0	<1.0	<1.0	<1.0
VC	<0.10	<0.10	<0.10	<0.20

LEGEND

- SITE BOUNDARY
- MW-1 MONITORING WELL LOCATION AND ID
- MW-2 DESTROYED OR ABANDONED MONITORING WELL LOCATION AND ID
- INFERRED GROUNDWATER FLOW DIRECTION

ANALYTES

WELL ID	
TPH-G	GASOLINE RANGE HYDROCARBONS
TPH-D	DIESEL RANGE HYDROCARBONS
TPH-O	HEAVY OIL RANGE HYDROCARBONS
B	BENZENE
T	TOLUENE
E	ETHYL BENZENE
X	TOTAL XYLENES
TCE	TRICHLOROETHENE
cis 1,2-DCE	CIS-1,2-DICHLOROETHENE
CA	CHLOROETHANE
1,1-DCA	1,1-DICHLOROETHANE
1,2-DCA	1,2-DICHLOROETHANE
VC	VINYL CHLORIDE
MTBE	METHYL TERT-BUTYL ETHER

UNITS IN MICROGRAMS PER LITER (µg/L)

< LESS THAN LABORATORY REPORING LIMITS

– NOT ANALYZED OR NOT APPLICABLE

BOLD AT OR ABOVE MTCA METHOD A CLEANUP LEVEL

MO = MATRIX SPIKE RECOVERY AND/OR SPIKE DUPLICATES RECOVERY WAS OUTSIDE LABORATORY CONTROL LIMITS

N

0 20 40

APPROXIMATE SCALE IN FEET

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FOR: ConocoPhillips
FACILITY NO. 255028 (RM&R 1344)
247 D STREET
BLAINE, WASHINGTON

SITE PLAN WITH ANALYTICAL RESULTS (DECEMBER 8, 2009)

FIGURE: **2**

JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:
212301494	DJH	TP	CG	12/21/09

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TABLE1

CUMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS

ConocoPhillips Facility No. 255028 (RM&R 1344)

247 D Street

Blaine, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Halogenated Volatile Organic Compounds					
TOC Elevation	Sample Date	Depth to Water	LPH Thickness	GW Elevation	TPH-G (ug/L)	TPH-D (ug/L)	TPH-O (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	TCE (ug/L)	cis-1,2-DCE (ug/L)	CA (ug/L)	1,1 DCA (ug/L)	1,2 DCA (ug/L)	VC (ug/L)
MW-1	07/06/93	4.35	--	96.07	<50	--	--	<0.1	<0.1	<0.1	<1.0	--	--	--	--	--	--	--
100.42	10/11/94	4.60	--	95.82	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	01/20/95	3.80	--	96.62	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--		--	--	--	--	--
	04/21/95	3.77	--	96.65	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	*	<1.0	<1.0	<1.0	<1.0	<1[1]
	07/24/95	5.13	--	95.29	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	10/25/95	4.79	--	95.14	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	01/17/96	2.95	--	97.47	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	04/16/96	3.30	--	97.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/25/96	4.13	--	96.29	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	10/16/96	4.74	--	95.68	--	<250	<750	--	--	--	--	--	--	--	--	--	--	--
	02/27/97	4.47	--	95.95	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	05/13/97	6.19	--	94.23	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/21/97	5.85	--	94.77	142	387	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	11/25/97	4.02	--	96.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/13/98	4.01	--	96.41	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	05/19/98	4.31	--	96.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/17/98	4.94	--	95.48	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	11/19/98	4.78	--	96.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/17/99	4.08	--	96.34	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	05/25/99	4.90	--	95.52	136	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/17/99	4.94	--	95.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/07/99	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/10/00	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/31/00	4.96	--	95.46	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/31/00	5.00	--	95.42	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	11/01/00	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/07/01	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/02/01	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/01	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/01/01	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/04/02	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/07/02	4.18	--	96.24	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/02/02	4.86	--	95.59	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	12/04/02	4.50	--	95.92	<50.0	<267	<575	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	03/05/03[MP]	3.81	--	96.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/09/03	4.00	--	96.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/17/03	3.570	--	96.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/24/04	3.540	--	96.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/17/04	3.61	--	96.61	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/23/04	3.46	--	96.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/29/04	3.13	--	97.29	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/03/05	3.38	--	97.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/06/05	3.57	--	96.85		--	--	--	--	--	--	--	--	--	--	--	--	--
	09/15/05	3.57	--	96.85		--	--	--	--	--	--	--	--	--	--	--	--	--
	12/14/05	3.47	--	96.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	3/7/06	2.85	--	97.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	6/27/06	3.98	--	96.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	9/6/06	6.02	--	94.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/27/06	4.98	--	95.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/28/07	4.29	--	96.13	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/21/07	4.38	--	96.04	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/24/07	4.53	--	95.89	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/04/07	3.92	--	96.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/05/08	3.94	--	96.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/17/08	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/09/08	4.30	--	96.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/10/08	MONITORING WELL WAS NOT GAUGED OR SAMPLED						--	--	--	--	--	--	--	--	--	--	--
	03/30/09	3.90	--	96.52	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	06/15/09	4.65	--	95.77	<50.0	<79	<400	<1.0	<1.0	<1.0	<3.0	1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	09/28/09	5.23	--	95.19	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	1.9	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	12/08/09	4.80	--	95.62	Gauged only- not part of the sampling schedule this reporting period.													

TABLE1

CUMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
ConocoPhillips Facility No. 255028 (RM&R 1344)
247 O Street
Blaine, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Halogenated Volatile Organic Compounds					
TOC Elevation	Sample Date	Depth to Water	LPH Thickness	GW Elevation	TPH-G (ug/L)	TPH-D (ug/L)	TPH-O (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	TCE (ug/L)	cis-1,2-DCE (ug/L)	CA (ug/L)	1,1 DCA (ug/L)	1,2 DCA (ug/L)	VC (ug/L)
MW-2	07/26/93	3.87	--	94.62	7,800	--	--	990	560	140	840	--	--	--	--	--	--	--
98.49	10/11/94	5.20	--	93.29	2,500	380	<750	1,500	37	220	300	--	--	--	--	--	--	--
	01/20/95	4.19	--	94.30	14,000	690	<750	3,400	1,300	660	2,300	--	*	<1.0	<1.0	<1.0	<1.0	<1[1]
	04/21/95	4.23	--	94.26	16,000	680	<750	5,600	950	810	2,800	--	--	--	--	--	--	--
	07/24/95	4.71	--	93.78	4,500	590	<750	4,300	85	430	800	--	--	--	--	--	--	--
	10/25/95	4.04	--	94.45	12,000	1,000	<750	9,800	390	800	2,000	--	--	--	--	--	--	--
	01/17/96	3.87	--	94.62	13,000	410	<750	5,300	520	940	2,200	--	--	--	--	--	--	--
	04/18/96	2.87	--	95.62	31,000	670	<750	5,600	1,900	1,100	4,300	--	--	--	--	--	--	--
	07/25/96	4.29	--	94.20	5,780	689	<750	7,870	189	463	901	--	--	--	--	--	--	--
	10/16/96	3.66	--	94.53	6,880	<250	<750	5,380	752	436	1,120	--	--	--	--	--	--	--
	02/27/97	3.67	--	94.82	16,300	780	<750	9,790	661	832	2,800	--	--	--	--	--	--	--
	05/13/97	4.08	--	94.41	15,800	<250	<750	8,530	1,960	793	3,470	--	--	--	--	--	--	--
	08/21/97	4.41	--	94.08	25,500	<750	<750	8,890	716	852	2,270	--	--	--	--	--	--	--
	11/25/97	3.48	--	95.01	42,400	993	<750	9,070	1,330	1,870	6,820	--	*	<20	<20	<20	<20	<20[2]
	02/13/98	3.05	--	95.44	27,600	455	<750	8,020	664	1,560	5,260	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	05/19/98	3.71	--	94.78	54,300	1,300	<750	12,200	2,620	2,340	9,850	--	*	<10.0	<10.0	<10.0	<10.0	<10.0[2]
	08/17/98	4.72	--	93.77	44,300	750	<750	12,100	644	2,490	9,700	--	*	<10.0	<10.0	<10.0	<10.0	<10.0[2]
	11/19/98	4.16	--	94.31	30,100	--	--	8,730	435	2,050	6,330	--	*	<20.0	<20.0	<20.0	<20.0	<20[2]
	02/17/99	2.66	--	95.83	24,300	589	<750	7,550	489	1,840	5,070	--	*	<20.0	<20.0	<20.0	<20.0	<20[2]
	05/25/99	3.18	--	95.33	65,800	2,120	<3,750	8,960	3,890	3,100	12,000	--	*	<10.0	<10.0	<10.0	<10.0	<10.0[2]
	08/12/99	3.56	--	94.93	56,100	891	<750	10,600	1,340	3,680	13,500	--	*	<100	<100	<100	<100	<100[2]
	12/07/99	3.23	--	95.26	17,700	530	<750	6,290	58.9	1,780	2,290	--	*	<10.0	<10.0	<10.0	<10.0	<10.0[2]
	02/10/00	2.91	--	95.58	20,300	533	<1,490	8,540	421	2,050	3,650	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	05/31/00	3.60	--	94.89	44,700	837	<750	9,630	793	3,230	8,640	--	*	<10.0	<10.0	<10.0	<10.0	<10.0[2]
	08/31/00	4.65	--	93.84	33,800	1,020	<750	10,400	110	3,120	5,260	--	--	--	--	--	--	--
	11/01/00	3.78	--	94.71	33,800	780	<1,330	7,330	677	2,890	6,850	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/02/01	2.94	--	95.55	14,100	1,560	<750	5,480	146	1,620	2,250	--	--	--	--	--	--	--
	05/02/01	3.88	--	94.61	33,600	841	<750	5,100	1,370	2,330	7,120	--	*	<40.0	<40.0	<40.0	<40.0	<40.0[2]
	08/14/01	4.55	--	93.94	41,400	1,660	<563	7,890	491	3,600	8,790	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	11/01/01	4.40	--	94.09	29,000	1,450	<670	9,180	149	2,480	3,600	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/04/02	2.10	--	96.39	20,800	1,170	<500	4,380	341	1,710	2,190	--	--	--	--	--	--	--
	MONITORING WELL DESTROYED																	
MW-2A	12/04/02[3]	2.66	--	96.21	<50.0	332	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
99.17	03/05/03	2.62	--	96.55	<50.0	<301	<602	1.21	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	05/09/03	3.15	--	96.02	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	*	<0.200	<1.00	<0.200	<0.200	<0.200
	12/12/03	1.78	--	97.39	<50.0	<119	<238	<0.250	<0.500	<0.500	<1.50	--	*	<0.500	<0.500	<0.500	<0.500	1.83
	03/24/04	2.160	--	97.01	<100[3]	<132	<263	<1.00[3]	<1.00[3]	<1.00[3]	<3.00[3]	--	*	<0.500	<0.500	<0.500	<0.500	<0.5[2]
	06/17/04	3.61	--	95.56	<50.0	<119	<238	<0.250	<0.500	<0.500	<1.50	--	*	<0.500	<0.500	<0.500	<0.500	<0.200
	09/23/04	1.34	--	97.83	<50	<255	<511	<0.50	<0.50	<0.50	<1.0	--	*	<0.50	<1.0	<0.50	<0.50	<0.5[2]
	12/29/04	0.68	--	98.79	<100	<241	<481	<1.00	<1.00	<1.00	<3.00	--	*	<1.0	<1.0	<1.0	<1.0	<1[1]
	03/03/05	3.03	--	96.14	<100	<240	<480	<1.00	<1.00	<1.00	<3.00	--	*	<1.0	<1.0	<1.0	<1.0	<1[1]
	05/09/05	3.15	--	96.02	<100	<238	<476	<1	<1	<1	<3	<1	<1	<1	<1	<1	<1	<1[1]
	09/15/05	4.76	--	94.41	<48	<160	<200	<0.5	<0.5	<0.5	<1.5	--	<1	<0.8	<1	<0.8	<1	<1[1]
	12/14/05	2.61	--	96.56	<48	<75	<95	<0.2	<0.2	<0.2	<0.6	0.4	<1	<0.8	<1	<1	<1	<1[1]
	03/07/06	2.68	--	96.49	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	<0.3	<1	<0.8	<1	<0.6	<1	<1[1]
	06/27/06	3.5	--	95.67	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	<0.3	<1	<0.8	<1	<0.8	<1	<1[1]
	09/08/06	5.46	--	93.69	<48	<76	<95	<0.5	<0.7	<0.8	<0.8	0.5	<1	<0.8	<1	<0.8	<1	<1[1]
	12/27/06	1.06	--	98.11	<48	<800**	<1000**	<0.5	<0.7	<0.8	<1.6	<0.5	<1	<0.8	<1	<1	<1	<1[1]
	03/28/07	1.19	--	97.98	<48	<76	<95	<0.5	<0.7	<0.8	<1.6	<0.5	<1	<0.8	<1	<1	<1	<1[1]
	06/21/07	2.67	--	96.50	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<1	<0.8	<1	<1	<0.8	<1[1]
	09/24/07	4.21	--	94.96	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<1	<0.8	<1	<1	<1	<1[1]
	12/04/07	0.75	--	98.92	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<1	<0.8	<1	<1	<1	<1[1]
	03/05/08	2.62	--	96.55	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	<0.5	<1	<0.8	<1	<1	<1	<1[1]
	06/17/08	2.44	--	96.73	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	<1	<0.8	<1	<1	<1	<1[1]
	09/09/08	2.75	--	96.42	<50	--	--	<0.1	<0.1	<0.1	<0.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	12/10/08	Removed from sampling schedule this quarter.			--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/30/09	1.82	--	97.35	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	06/15/09	3.66	--	95.52	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	09/28/09	3.43	--	95.74	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	12/08/09	1.70	--	98.72	Gauged only- not part of the sampling schedule this reporting period.													

TABLE 1

CUMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
ConocoPhillips Facility No. 255028 (RM&R 1344)
247 D Street
Blaine, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons						Halogenated Volatile Organic Compounds					
TOC Elevation	Sample Date	Depth to Water	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	CA (µg/L)	1,1 DCA (µg/L)	1,2 DCA (µg/L)	VC (µg/L)
MW-3	07/06/93	4.39	--	94.18	1,000	--	--	840	25	77	370	--	--	--	--	--	--	--
98.57	10/11/94	5.54	--	93.03	21,000	1,200	<750	1,100	21	380	640	--	--	--	--	--	--	--
	01/20/95	5.54	--	93.03	7,800	2,600	<750	990	13	310	150	--	*	4.7	<1.0	<1.0	<2.0	46
	04/21/95	6.63	--	91.94	6,300	1,900	<750	100	11	130	91	--	*	3.3	1.2	<1.0	1.9	130
	07/24/95	6.54	--	92.03	<50	1,700	<750	4.6	<0.5	0.69	<1.0	--	*	1.7	<1.0	<1.0	1.2	53
	10/25/95	5.39	--	93.18	11,000	2,400	<750	940	5.6	130	34	--	*	4.5	<1.0	<1.0	1.5	74
	01/17/96	6.30	--	92.27	5,600	930	<750	480	3.6	56	16	--	*	2.1	1.7	<1.0	1.3	32
	04/18/96	5.72	--	94.85	7,400	1,200	<750	380	5.3	61	22	--	*	2.4	1.5	<1.0	1.5	53
	07/25/96	4.74	--	93.83	4,340	997	<750	372	<1.0	40.2	<10.0	--	*	1.21	<1.0	<1.0	1.27	27.3
	10/16/96	5.22	--	93.35	4,040	<250	<750	171	1.86	27.2	5.04	--	*	1.04	1.65	<1.00	1.12	32.1
	02/27/97	3.79	--	94.78	2,540	<250	<750	261	<2.50	24.1	6.01	--	*	1.47	1.85	<1.00	1.39	13.2
	05/13/97	4.54	--	94.03	186	<250	<750	119	<1.00	6.85	2.35	--	*	<1.00	1.31	<1.00	<1.00	15.8
	08/21/97	4.72	--	93.85	1,780	<250	<750	138	1.96	18.3	5.45	--	*	<1.00	2.24	<1.00	<1.00	21.4
	11/25/97	4.19	--	94.38	1,840	738	<750	38.3	1.80	5.65	3.21	--	*	1.07	<1.00	<1.00	<1.00	18.8
	02/13/98	4.36	--	94.22	1,850	497	<750	65.6	1.86	4.91	2.99	--	*	1.16	1.83	<1.00	<1.00	22.7
	05/19/98	4.78	--	93.79	2,850	567	<750	83.6	<5.00	9.07	<5.00	--	*	1.03	<1.00	<1.00	<1.00	29.5
	08/17/98	5.29	--	93.28	2,890	<250	<750	68.4	3.29	3.57	<5.00	--	*	1.51	<1.00	<1.00	<1.00	30.8
	11/19/98	4.89	--	93.68	1,850	--	--	49.1	<10.0	2.64	<5.00	--	*	1.33	1.05	<1.00	<1.00	47.4
	02/17/99	Obstructed																
	05/25/99	4.21	--	94.36	1,100	978	<750	53.8	10.8	4.72	<2.00	--	*	<1.00	<1.00	<1.00	<1.00	11.2
	08/12/99	4.40	--	94.17	3,030	674	<750	314	23.2	15.0	4.25	--	*	<2.00	<2.00	<2.00	<2.00	18.3
	12/07/99	4.95	--	93.72	1,810	568	<750	211	12.0	<5.00	<10.0	--	*	1.05	1.76	<1.00	<1.00	20.2
	02/10/00	4.76	--	93.81	2,080	<250	<750	260	8.56	3.31	<2.30	--	*	1.17	<1.00	<1.00	<1.00	15.8
	05/31/00	4.62	--	93.95	2,250	489	<750	273	9.06	22.8	7.03	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/01/00	4.97	--	93.60	3,070	822	<750	268	5.86	9.41	<10.0	--	--	--	--	--	--	--
	11/01/00	4.72	--	93.85	2,190	761	<1,670	139	3.99	<2.05	<3.75	--	*	<1.00	<1.00	<1.00	<1.00	4.47
	02/02/01	5.85	--	92.72	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	05/02/01	3.81	--	94.76	1,300	364	<750	29.8	1.64	1.82	1.87	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/14/01	4.31	--	94.26	1,250	558	<573	31.2	0.712	1.94	4.34	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	11/01/01	4.18	--	94.39	774	704	<500	4.35	<0.500	0.556	1.47	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/04/02	3.91	--	94.66	881	491	<500	30.4	<0.500	0.753	1.26	--	--	--	--	--	--	--
	05/07/02	4.32	--	94.25	807	635	<625	49.7	1.45	1.83	4.48	--	--	--	--	--	--	--
	08/07/02	5.11	--	93.46	859	421	<562	31.7	0.506	1.10	2.17	--	--	--	--	--	--	--
	12/04/02	4.40	--	94.17	354	402	<500	7.70	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	03/05/03	2.25	--	96.32	372	<287	<575	38.9	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	5.15
	06/09/03	5.55	--	93.02	834	483	584	138	5.02	2.47	9.41	--	*	<4.00	<4.00	<4.00	<4.00	8.44
	12/12/03	2.31	--	96.26	90.4	<119	<237	9.5	<0.500	<0.500	<1.50	--	*	<0.500	<0.500	<0.500	<0.500	<0.5[2]
	03/24/04	3.18	--	95.39	<100	<133	<265	10.7	<1.00	<1.00	<3.00	--	*	<0.500	<0.500	<0.500	<0.500	1.43
	06/17/04	3.29	--	95.28	<50.0	<119	<238	0.568	<0.500	<0.500	<1.50	--	*	<0.500	<0.500	<0.500	<0.500	<0.200
	09/23/04	5.05	--	93.52	200	<255	<510	4.3	<0.50	<0.50	<1.0	--	*	<0.50	<0.50	<0.50	<0.50	1.4
	12/29/04	1.54	--	97.03	<100	<239	<477	<1.00	<1.00	<1.00	<3.00	--	*	<1.0	<1.0	<1.0	<1.0	<1[1]
	03/03/05	1.98	--	96.59	<100	<238	<476	<1.00	<1.00	<1.00	<3.00	--	*	<1.0	<1.0	<1.0	<1.0	<1[1]
	06/08/05	2.91	--	95.66	<100	<238	<476	4.83	<1	<1	<3	39.8	<1	<1	<1	<1	<1	2.13
	09/13/05	5.67	--	92.76	<48	<75	<94	<0.5	<0.5	<0.5	<1.5	--	<1	<0.8	<1	<1	<1	<1[1]
	12/14/05	3.61	--	94.96	<48	<76	<95	0.3	<0.2	<0.2	<0.6	8.2	<1	<0.8	<1	<1	<1	<1[1]
	03/07/06	2.97	--	95.60	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	6.5	<1	<0.8	<1	<0.8	<1	<1[1]
	06/27/06	3.1	--	95.47	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	1.3	<1	<0.8	<1	<0.8	<1	<1[1]
	09/08/06	6.78	--	91.79	<48	<75	<95	<0.5	<0.7	<0.8	<0.8	2	<1	<0.8	<1	<0.8	<1	<1[1]
	12/27/06	3.35	--	95.22	<48	<76	<95	<0.5	<0.7	<0.8	<1.6	4	<1	<0.8	<1	<0.8	<1	<1[1]
	03/28/07	2.05	--	96.52	<48	<76	<95	<0.5	<0.7	<0.8	<1.6	2	<1	<0.8	<1	<1	<1	<1[1]
	06/21/07	3.71	--	94.86	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	2	<1	<0.8	<1	<1	<1	<1[1]
	09/24/07	5.75	--	93.32	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	4	<1	<0.8	<1	<1	<1	<1[1]
	12/04/07	0.78	--	97.81	<50	<77	<96	<0.5	<0.7	<0.8	<0.8	3	<1	<0.8	<1	<1	<1	<1[1]
	03/05/08	3.43	--	95.14	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	3	<1	<0.8	<1	<1	<1	<1[1]
	06/17/08	2.97	--	95.60	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	0.7	<1	<0.8	<1	<1	<1	<1[1]
	09/09/08	3.60	--	94.97	<50	<77	<96	<0.1	<0.1	<0.1	<0.2	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	12/10/08	Removed from sampling schedule this quarter.			--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/30/09	3.70	--	94.87	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	06/15/09	3.02	--	95.55	<50.0	<77	<380	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	09/28/09	5.14	--	93.43	<50.0	<77.7	<388	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	12/08/09	3.02	--	95.55	--	--	--	<1.0	<1.0	<1.0	<3.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20

TABLE1

CUMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS

ConocoPhillips Facility No. 255028 (RM&R 1344)

247 D Street

Blaine, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Halogenated Volatile Organic Compounds					
TOC Elevation	Sample Date	Depth to Water	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	CA (µg/L)	1,1 DCA (µg/L)	1,2 DCA (µg/L)	VC (µg/L)
MW-4	07/06/93	4.78	--	94.75	<50	320	<1,000	<1.0	<1.0	<1.0	<1.0	--	*	9.8	<1.0	<1.0	<1.0	<5.0[2]
99.53	10/11/94	5.50	--	94.03	<50	290	<750	<0.5	<0.5	<0.5	<1.0	--	*	9.8	<1.0	<1.0	<1.0	<1[1]
	01/20/95	6.53	--	93.00	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	*	8.9	<1.0	<1.0	<1.0	<1[1]
	04/21/95	5.62	--	93.91	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	*	8.8	<1.0	<1.0	<1.0	<1[1]
	07/24/95	6.83	--	92.70	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	*	8.6	<1.0	<1.0	<0.5	<1[1]
	10/25/95	6.41	--	93.12	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	*	11	<1.0	<1.0	<0.5	<1[1]
	01/17/96	6.25	--	93.28	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	*	7.8	<1.0	<1.0	<0.5	<1[1]
	04/18/96	4.13	--	95.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	07/25/96	4.88	--	94.65	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	*	5.15	<1.0	<1.0	<0.5	<1[1]
	10/18/96	6.56	--	92.96	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/27/97	6.05	--	93.48	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	8.33	<1.00	<1.00	<1.00	<1[1]
	05/13/97	6.26	--	93.27	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/21/97	6.04	--	93.49	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	10.3	<1.00	<1.00	<1.00	<1[1]
	11/25/97	4.88	--	94.65	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/13/98	4.89	--	94.64	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	7.76	<1.00	<1.00	<1.00	<1[1]
	05/19/98	5.11	--	94.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/17/98	5.20	--	94.33	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	5.38	<1.00	<1.00	<1.00	<1[1]
	11/19/98	4.95	--	94.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/17/99	4.72	--	94.81	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	9.01	<1.00	<1.00	<1.00	<1[1]
	05/25/99	4.88	--	94.87	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	8.96	<1.00	<1.00	<1.00	<1[1]
	08/17/99	4.98	--	94.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/07/99	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/10/00	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/31/00	4.78	--	94.75	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	8.11	<1.00	<1.00	<1.00	<1[1]
	08/31/00	5.44	--	94.09	<50.0	<483	<1390	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	11/01/00	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/02/01	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/02/01	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/14/01	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/01/01	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	02/04/02	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/07/02	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/07/02	3.99	--	94.53	<50.0	<262	<704	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	12/04/02	4.29	--	95.24	<50.0	<250	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	03/05/03[3]	4.80	--	94.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/09/03	4.96	--	94.57	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/17/03	4.025	--	95.505	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/24/04	3.45	--	96.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/17/04	3.95	--	95.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	09/23/04	3.57	--	95.96	<50	<254	<508	<0.50	<0.50	<0.50	<1.0	--	*	26	<1.0	<0.50	<0.50	5.8
	12/29/04	3.90	--	95.63	<100	<239	<478	<1.00	<1.00	<1.00	<3.00	--	*	23.5	<1.0	<1.0	<1.0	2.59
	03/03/05	4.57	--	94.96	<100	<242	<483	<1.00	<1.00	<1.00	<3.00	--	*	23.8	<1.0	<1.0	<1.0	<1[1]
	06/06/05	3.83	--	95.70	<100	<238	<476	<1	<1	<1	<3	<1	<1	32.5	<1	<1	<1	2.84
	09/15/05	6.67	--	92.86	<48	<75	<94	<0.5	<0.5	<0.5	<1.5	--	<1	30	<1	<1	<1	3
	12/14/05	3.56	--	95.97	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	<0.3	<1	14	<1	<1	<1	<1[1]
	03/07/06	3.86	--	95.67	<48	<75	<93	<0.2	<0.2	<0.2	<0.6	<0.3	<1	14	<1	<1	<1	<1[1]
	06/27/06	3.7	--	95.83	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	<0.3	<1	15	<1	<1	<1	<1[1]
	09/06/06	6.15	--	93.38	<48	<76	<95	<0.5	<0.7	<0.8	<0.6	<0.5	1	34	<1	<1	<1	4
	12/27/06	3.5	--	96.03	<48	<76	<95	<0.5	<0.7	<0.8	<1.6	<0.5	1	23	<1	<1	<1	<1[1]
	03/28/07	2.52	--	97.01	<48	<76	<95	<0.5	<0.7	<0.8	<1.6	<0.5	1	18	<1	<1	<1	<1[1]
	06/21/07	4.05	--	95.48	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<1	26	<1	<1	<1	<1[1]
	09/24/07	5.85	--	93.68	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	<1	26	<1	<1	<1	3
	12/04/07	2.20	--	97.33	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	<1	11	<1	<1	<1	<1[1]
	03/05/08	3.80	--	95.73	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	<0.5	<1	15	<1	<1	<1	<1[1]
	06/17/08	3.45	--	96.08	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	<0.5	<1	20	<1	<1	<1	<1[1]
	09/09/08	3.65	--	95.88	<50	<77	<97	<0.1	<0.1	<0.1	<0.2	<0.1	0.5	5	<0.1	<0.1	<0.1	0.3
	12/10/08	2.52	--	97.01	<50	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	11	<0.1	<0.1	<0.1	0.1
	03/30/09	3.05	--	96.48	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.40
	06/15/09	4.92	--	94.61	<50.0	<77	<380	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	5.7	<1.0	<1.0	<1.0	<0.10
	09/28/09	4.88	--	94.65	<50.0	<77.7	<388	<1.0	<1.0 MD	<1.0	<3.0 MD	<1.0	<1.0	10.6	<1.0	<1.0 MD	<1.0	0.74
	12/08/09	2.99	--	96.54	--	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	11.1	<1.0	<1.0	<1.0	<0.20

TABLE1

CUMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
ConocoPhillips Facility No. 255028 (RM&R 1344)
247 D Street
Blaine, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Halogenated Volatile Organic Compounds					
TOC Elevation	Sample Date	Depth to Water	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	CA (µg/L)	1,1 DCA (µg/L)	1,2 DCA (µg/L)	VC (µg/L)
MW-5	10/11/94	5.75	--	87.21	55	680	<750	2.8	<0.5	<0.5	<1.0	260	--	--	--	--	--	--
92.96	01/20/95	3.04	--	89.92	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	*	<1.0	<1.0	<1.0	<1.0	<1[1]
	04/21/95	3.57	--	89.39	<50	<250	<750	<0.70	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	07/24/95	4.37	--	88.59	<50	<250	<750	<0.88	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	10/25/95	3.87	--	89.09	<50	<250	<750	4.1	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	01/17/96	2.86	--	90.10	<50	<250	<750	<0.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	04/18/96	3.10	--	89.77	<50	<250	<750	2.9	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	07/25/96	4.05	--	88.90	<50	<250	<750	1.97	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	10/16/96	3.87	--	89.09	<50	<250	<750	1.02	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	02/27/97	3.09	--	89.87	<50	<250	<750	0.836	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	05/13/97	3.05	--	89.91	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	08/21/97	3.89	--	89.07	<50	348	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	11/25/97	2.53	--	90.43	<50	266	<750	0.876	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/13/98	3.02	--	89.94	68.9	<250	<750	<5.00	<0.500	<0.500	<2.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	05/19/98	3.65	--	89.31	180	<250	<750	<5.00	<1.00	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/17/98	4.53	--	88.43	76.8	<250	<750	<3.00	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	11/19/98	3.33	--	89.63	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/17/99	3.21	--	89.75	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	05/25/99	3.66	--	89.30	<50.0	<250	<750	0.800	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/12/99	UNABLE TO LOCATE SINCE 08/12/99																
MW-6	10/11/94	5.85	--	91.99	<50	<250	<750	3.2	<0.5	0.53	<1.0	--	--	--	--	--	--	--
97.84	01/20/95	2.36	--	95.48	<50	260	<750	<0.5	<0.5	<0.5	<1.0	--	*	<1.0	<1.0	<1.0	<1.0	<1[1]
	04/21/95	3.34	--	94.50	<50	260	<750	4.5	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	07/24/95	5.00	--	92.84	150	330	<750	34	<0.5	2.8	<1.0	--	--	--	--	--	--	--
	10/25/95	4.97	--	92.87	290	440	<750	28	<0.5	2.1	<1.0	--	--	--	--	--	--	--
	01/17/96	2.15	--	95.69	<50	250	<750	1.6	<0.5	<0.5	<1.0	--	--	--	--	--	--	--
	04/18/96	3.34	--	94.50	61	250	<750	9.9	<0.5	0.54	<1.0	--	--	--	--	--	--	--
	07/25/96	4.72	--	93.07	149	321	<750	76.2	<0.5	3.68	1.92	--	--	--	--	--	--	--
	10/16/96	4.24	--	93.60	68.3	<250	<750	19.6	<0.500	0.780	<1.00	--	--	--	--	--	--	--
	02/27/97	4.41	--	93.43	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	05/13/97	4.32	--	93.52	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	08/21/97	5.75	--	92.09	<50	370	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	11/25/97	2.09	--	95.75	<50	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/13/98	4.23	--	93.61	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	05/19/98	4.26	--	93.58	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/17/98	6.46	--	91.38	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	1.04	<1[1]
	11/19/98	3.15	--	94.69	<50.0	--	--	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/17/99	3.54	--	94.30	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	05/25/99	4.86	--	92.98	<50.0	341	<750	0.501	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/12/99	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/07/99	3.11	--	94.73	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/10/00	3.80	--	94.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/31/00	4.61	--	93.73	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/31/00	6.18	--	91.86	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	11/01/00	5.07	--	92.77	<50.0	<250	<750	0.688	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	02/02/01	4.05	--	93.79	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	05/02/01	4.04	--	93.80	<50.0	<250	<750	<0.500	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	<1.00	<1[1]
	08/14/01	6.20	--	91.64	60.0	341	<500	0.538	<0.500	<0.500	<1.00	--	*	<1.00	<1.00	<1.00	2.06	<1[1]
	11/01/01	Obstructed																
	02/04/02	1.88	--	95.96	<50.0	261	<500	<0.500	<0.500	<0.500	<1.00	--	--	--	--	--	--	--
	05/07/02	4.70	--	93.14	121	467	<500	4.42	0.773	1.73	2.11	--	--	--	--	--	--	--
	08/02/02	5.39	--	92.45	480	418	<500	48.9	0.804	19.8	2.52	--	--	--	--	--	--	--
	12/04/02	4.56	--	93.28	228	812	<802	12.5	<0.500	7.89	<1.00	--	--	--	--	--	--	--
	03/05/03	4.35	--	93.49	204	<264	<568	9.85	0.952	7.43	<1.00	--	*	1.40	<1.00	1.40	<1.00	<1[1]
	06/09/03	4.89	--	92.95	97.0	<250	<500	1.05	2.09	1.73	4.43	--	*	<0.200	<1.00	<0.200	1.77	<0.200
	12/17/03	2.830	--	95.010	130	221	267	1.49	4.94	1.02	<1.50	--	*	<0.500	<0.500	<0.500	0.575	<0.5[1]
	03/24/04	4.140	--	93.70	<100	<125	<251	<1.00	<1.00	<1.00	<3.00	--	*	<0.500	<0.500	<0.500	0.773	<0.5[1]
	06/17/04	4.70	--	93.14	<50.0	<118	<237	1.09	<0.500	0.638	<1.50	--	*	<0.500	<0.500	<0.500	1.42	<0.200
	09/23/04	3.51	--	94.33	63	<250	<512	<0.50	<0.50	<0.50	<1.0	--	*	<0.50	<1.0	<0.50	1.7	<0.5[1]
	12/29/04	1.12	--	96.72	<100	<237	<474	<1.00	1.55	<1.00	<3.00	--	*	<1.0	<1.0	<1.0	<1.0	<1[1]
	03/03/05	4.64	--	93.20	<100	<237	<474	<1.00	<1.00	<1.00	<3.00	--	*	<1.0	<1.0	<1.0	1.31	<1[1]
	06/09/05	4.96	--	92.88	<100	<238	<476	<1	<1	<1	<3	5.12	<1	<1	<1	<1	<1	<1[1]
	09/15/05	6.5	--	91.34	<48	<74	<93	<0.5	<0.5	<0.5	<1.5	5.12	<1	<0.8	<1	<1	<1	<1[1]
	12/14/05	3.85	--	93.99	69	<75	200	<0.2	1.6	0.5	<0.6	<5.0[1]	<1	<0.8	<1	<1	<1	<1[1]
	03/07/06	4.16	--	93.68	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	6.9	<1	<0.8	<1	<0.8	<1	<1[1]
	06/27/06	Unable to locate																
	09/08/06	7.56	--	90.28	<48	<76	<96	<0.5	<0.7	<0.8	<0.8	<0.5	<1	<0.8	<1	<0.8	<1	<1[1]
	12/27/06	1.46	--	96.38	290	<77	<97	<0.5	49	<0.8	<1.6	<0.5	<1	<0.8	<1	<1	<1	<1[1]
	03/28/07	1.94	--	95.90	<48	<77	<96	<0.5	1	<0.8	<1.6	0.9	<1	<0.8	<1	<1	<1	<1[1]
	06/21/07	4.58	--	93.26	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	14	<1	<0.8	<1	<1	1	<1[1]
	09/24/07	5.95	--	91.89	<50	<76	<96	<0.5	<0.7	<0.8	<0.8	4	<1	<0.8	<1	<1	<1	<1[1]

TABLE1

CUMULATIVE SUMMARY OF GROUNDWATER ELEVATIONS AND SAMPLE ANALYTICAL RESULTS
ConocoPhillips Facility No. 255028 (RM&R 1344)
247 D Street
Blaine, Washington

Well Name		Elevation Data (feet)			Total Petroleum Hydrocarbons			Aromatic Hydrocarbons					Halogenated Volatile Organic Compounds					
TOC Elevation	Sample Date	Depth to Water	LPH Thickness	GW Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-O (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	CA (µg/L)	1,1 DCA (µg/L)	1,2 DCA (µg/L)	VC (µg/L)
	12/04/07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	03/06/08	4.11	--	93.73	<50	<75	<94	<0.5	<0.7	<0.8	<0.8	3	<1	<0.8	<1	<1	<1	<1[1]
	06/17/08	3.93	0.00	93.91	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	8	<1	<0.8	<1	<1	<1	<1[1]
	09/09/08	4.70	--	93.14	<50	<77	<96	<0.1	<0.1	<0.1	<0.2	4.9	<0.1	0.7	<0.1	<0.1	<0.1	<0.1
	12/10/08	Removed from sampling schedule this quarter.					--	--	--	--	--	--	--	--	--	--	--	--
	03/30/09	3.72	--	94.62	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	06/15/09	5.00	--	92.84	<50.0	<78	<390	<1.0	<1.0	<1.0	<3.0	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<0.10
	09/28/09	5.58	--	92.25	<50.0	<76.9	<385	<1.0	<1.0	<1.0	<3.0	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<0.20
	12/08/09	2.95	--	94.89	--	--	--	Gauged only- not part of the sampling schedule this reporting period.										
MW-7	09/09/05	3.16	--	95.35	<100	<238	<476	<1	<1	<1	<3	138	14.6	<1	<1	<1	136	6.36
98.51	09/15/05	4.82	--	93.69	<48	<75	<94	2.6	<0.5	<0.5	<1.5	--	230	450	<1	<1	<1	34
	12/14/05	2.60	--	95.91	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	<0.3	2	3	<1	<1	<1	<1[1]
	03/07/06	2.83	--	95.68	<48	<75	<94	<0.2	<0.2	<0.2	<0.6	<0.3	4	7	<1	<0.6	<1	<1[1]
	06/27/06	3.40	--	95.11	<48	<75	<93	0.5	<0.2	<0.2	<0.6	4.0	190	330	<1	2	<1	18
	09/08/06	5.52	--	92.99	<48	<76	<96	2	<0.7	<0.8	<0.8	2.0	570	1,100	<1	<1	<1	39
	12/27/06	1.01	--	97.50	<48	<76	<95	2	<0.7	<0.8	<1.6	0.6	4	8	<1	<1	<1	22
	03/26/07	1.30	--	97.21	<48	<76	<95	8	<0.7	<0.8	<1.6	4.0	17	36	<1	<1	<1	17
	06/21/07	2.82	--	95.69	<50	<76	<95	2	<0.7	<0.8	<0.8	0.8	70	170	<1	<1	<1	13
	09/24/07	4.27	--	94.24	<50	<75	<94	2	<0.7	<0.8	<0.8	0.9	170	300	<1	<1	<1	20
	12/04/07	0.26	--	98.25	<50	<75	<94	8	<0.7	<0.8	<0.8	5.0	1	300	<1	<1	2	14
	03/06/08	2.79	--	95.72	<50	<76	<95	2	<0.7	<0.8	<0.8	<0.9	1	2	<1	<1	<1	<1[1]
	06/17/08	2.35	--	96.16	<50	<77[a]	<97[a]	1	<0.7	<0.8	<0.8	<0.5	3	6	<1	<1	<1	2
	09/09/08	2.75	--	95.76	<50	<78	<95	0.4	<0.1	<0.1	<0.1	<0.2	4.4	5.9	<0.1	<0.1	<0.1	0.8
	12/10/08	0.90	--	97.61	<50	--	--	5.5	<0.1	<0.1	<0.1	0.7	1.1	2	<0.1	<0.1	<0.1	6.5
	03/30/09	1.84	--	96.67	<50.0	--	--	1.3	<1.0	<1.0	<3.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	1.8
	06/15/09	3.65	--	94.86	<50.0	<78	<390	1.2	<1.0	<1.0	<3.0	<1.0	5.1	9.9	<1.0	<1.0	<1.0	1.1
	09/28/09	3.48	--	95.03	<50.0	<77.3	<386	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0	11	<1.0	<1.0	<1.0	1.2
	12/08/09	1.78	--	96.73	--	--	--	2.3	<1.0	<1.0	<3.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	2.1
MW-8	06/09/05	4.31	--	94.66	<100	<238	<476	<5	<5	<5	<15	<5	72	<5	<5	<5	177	36.3
98.97	09/15/05	6.22	--	92.75	<48	<75	<94	0.6	<0.5	<0.5	<1.5	--	12	72	<1	<0.6	<1	9
	12/14/05	3.63	--	95.14	<48	<75	<94	<1.0	<0.2	<0.2	<0.6	40[1]	3	32	<1	<1	<1	4
	03/07/06	3.96	--	95.11	<48	<75	<94	0.4	<0.2	<0.2	<0.6	26	3	19	<1	<1	<0.6	3
	06/27/06	4.65	--	94.32	<48	<76	<95	<0.2	<0.2	<0.2	<0.6	13	2	11	<1	<1	<0.6	1
	09/08/06	7.07	--	91.90	<48	<76	<96	<0.5	<0.7	<0.8	<0.8	35	6	52	<1	<1	<1	6
	12/27/06	2.39	--	96.58	<48	<76	<95	<0.5	<0.7	<0.8	<1.6	21	3	21	<1	<1	<1	3
	03/26/07	2.62	--	96.35	<48	<76	<95	<0.5	<0.7	<0.8	<1.6	17	2	15	<1	<1	<1	1
	06/21/07	4.05	--	94.92	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	19	3	21	<1	<1	<1	3
	09/24/07	5.78	--	93.21	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	27	4	40	<1	<1	<1	5
	12/04/07	2.10	--	96.87	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	18	2	18	<1	<1	<1	2
	03/06/08	3.70	--	95.27	<50	<76	<95	<0.5	<0.7	<0.8	<0.8	8	2	10	<1	<1	<1	<1[1]
	06/17/08	3.25	--	95.72	<50	<78[a]	<97[a]	<0.5	<0.7	<0.8	<0.8	9	2	11	<1	<1	<1	1
	09/09/08	3.90	--	95.17	<50	<78	<97	<0.1	<0.1	<0.1	<0.2	8.4	1.1	8.6	<0.1	<0.1	<0.1	0.8
	12/10/08	2.20	--	96.77	<50	--	--	<0.1	<0.1	<0.1	<0.1	12	1.8	14	<0.1	<0.1	<0.1	1.7
	03/30/09	2.88	--	96.11	<50.0	--	--	<1.0	<1.0	<1.0	<3.0	9.8	1.4	<1.0	<1.0	<1.0	<1.0	1.4
	06/15/09	4.86	--	94.12	<50.0	<77	<380	<1.0	<1.0	<1.0	<3.0	8.3	1.2	8.9	<1.0	<1.0	<1.0	1.1
	09/28/09	5.07	--	93.90	<50.0	<77.3	<386	<1.0	<1.0	<1.0	<3.0	12.3	<1.0	9.4	<1.0	<1.0	<1.0	1.1
	12/08/09	2.73	--	96.24	--	--	--	<1.0	<1.0	<1.0	<3.0	5.4	1.5	8.7	<1.0	<1.0	<1.0	0.31
ethod A Cleanup Level					1000/800[b]	500	500	5	1000	700	1000	20	5	MA	MA	MA	5	0.2

NOTES:

Concentrations are in micrograms per liter (ug/L).

TOC = Top of casing. Wellhead elevations in feet were taken from prior consultant's reports.

LPH = Liquid phase hydrocarbon in feet

TPH-G = Gasoline range hydrocarbons by Ecology Method NWTPH-Gx

TPH-D and TPH-O = Diesel and oil range hydrocarbons by Ecology Method NWTPH-Dx

cis-1,2-DCE = cis-1,2-Dichloroethene; trans-1,2-DCE = trans-1,2-Dichloroethene; CA = Chloroethane; Chloride;TCE=Trichloroethene; MTBE=Methyl Tert-Butyl Ether

1,1-DCA = 1,1-Dichloroethane; 1,2-DCA = 1,2-Dichloroethane; VC = Vinyl Chloride

1,2-DCE, CA, 1,1-DCA, 1,2-DCA, TCE, Chloroethane and VC by EPA 8010B (modified) or EPA 8260B; refer to lab reports

BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes by EPA Method 8020, EPA 8021B or 8260B; refer to official laboratory reports

< = Less than the stated laboratory reporting limit

Bolded values equal or exceed MTCA Method A Cleanup Levels.

[b] Concentration levels stated by MTCA Method A for TPH-G are 1,000 µg/L when no benzene is present and 800 µg/L when benzene is present.

[a] The recovery for the laboratory control sample (LCS) with this sample is below quality control limits. Since no sample remained for a reextraction the data is reported.

[c] The laboratory reporting limits (RL) are above MTCA Method A cleanup levels

Data collected before 12/12/03 are taken from prior consultants

[1] 1,1-dichloroethene and trans-1,2-dichloroethene both detected in this sample at a concentration of 3 ug/L

* TCE not reported prior to 6/9/05. Data may be available in previous reports.

**Due to the nature of the sample matrix, a reduced aliquot was used for analysis. The reporting limits were raised accordingly.

MS = Matrix spike recovery and/or spike duplicate recovery was outside laboratory control limits.

ATTACHMENT A
FIELD AND LABORATORY PROCEDURES

STANTEC MONITORING WELL GAUGING, PURGING AND SAMPLING PROCEDURES

Monitoring well purging and sampling was conducted based on USEPA approved (Puls and Barcelona, 1996) low-flow sampling techniques whenever possible.

Purging Procedures

A. Using a decontaminated instrument (i.e., tape measure, continuity meter, or interface probe) measure the depth to groundwater in reference to the measuring point at the top of the casing. Measure the total depth of the well and diameter of the well casing to calculate the volume of water in the well casing.

B. Based on previously obtained data, if a monitoring well is suspected of containing LPH concentrations, lower a transparent bailer into the well to evaluate the presence of a hydrocarbon sheen on the water table.

C. Decontaminate the purge pump and/or PVC bailers by scrubbing in Alconox detergent solution, followed by a tap water rinse and then a de-ionized water rinse.

D. Purge by low-flow pumping (less than 0.5 liters per minute) for approximately five minutes. Monitor the static water level in the well using a decontaminated instrument and adjust the pumping rate to maintain a minimal drawdown. If low-flow purging is not possible and bailing is used to purge the well, then a minimum of three well volumes will be removed. When purging 3 well volumes, parameters should be measured after each casing volume is removed. If the well goes dry, the procedure listed in step E2 (below) should be followed.

E. Conduct field measurements (i.e., pH, specific conductivity, temperature, and oxidation-reduction potential) note clarity, color, turbidity, and odor of purge water, and measure depth to groundwater.

1. If the well has not been purged dry and drawdown is minimal, continue to pump and conduct field measurements (including depth to water) again every three to five minutes during purging.

    a) If the first through third series of measurements vary by less than 10 percent, the well has been adequately purged. If bailers are used to purge the well, then the water level is allowed to recover to 80 percent of its static condition, or for two hours, whichever comes first prior to beginning the sampling procedure.

    b) If the measurements vary by 10 percent or greater, repeat Step E1 above.

    c) If a minimum of three parameters cannot be measured during purging and or drawdown cannot be controlled to minimal, remove three well volumes with a bailer prior to sampling.

2. If the well has been purged dry, measure the water level and allow the well to recharge to 80 percent, or for two hours, whichever occurs first. Calculate the percent recovery, and begin the sampling procedure.

Sampling Procedures

- Use the pump and a clean, dedicated section of tubing to collect the groundwater sample from the screened interval of the water column. If the pump cannot be used, collect the water sample with a clean, dedicated polyethylene disposable bailer.

- Transfer the groundwater sample into the appropriate container(s). Where applicable, some containers are completely filled to achieve zero headspace. Label the samples according to location and date of collection.

- Enter the samples into Chain-of-Custody and preserve on ice until delivery to the analytical laboratory. Complete the Well Development or Purging/Sampling Log to be stored in the project file.

Reference:

Puls, R.W., and Barcelona M.J., 1996. EPA Ground Water Issue Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures, EPA/540/S-95/504.

ATTACHMENT B
FIELD DATA SHEETS

SITE VISITATION REPORT

4Q09 - CP 255028 (RM&R 01344) Blaine, Washington

Name(s) D. Reitz Date: 12/8/09 Time of Arrival Call-In: 1220

Arrival Time: 1220 Departure Time: 1630 Time of Departure Call-In 1630

Who did you call? T. Parise

DRUM INVENTORY

1	WATER		CARBON	TOTAL OPEN TOP	1
	SOIL		EMPTY	TOTAL BUNG TOP	

HEALTH AND SAFETY ASSESSMENT

Don P.P.E.
Review HASP & JSA
Set-up Decon. Station

1225 Check-in with site-contact

DESCRIPTION OF ACTIVITIES ONSITE AND NOTES

1220 Arrive on job site. Call-in to office. Set-up decon. station & perform tailgate safety meeting. Don P.P.E.
1225 Initiate gauging of physical measurements at 4 gw.m. wells, prior to 4Q09 GWM sample procedures.
1320 Complete gauging procedures & initiate 4Q09 GWM sample procedures (sample 4 gw.m. wells).
1520 Complete 4Q09 GWM sample procedures. Decon. equipment and release purge water / decon. rinsates into staged drum. Label drum.
1540 Pack sample coolers & load equipment into truck.
1600 Complete daily documentation & call-in to office.
1630 Purchase ice. Check-out with site-contact. Depart job site.

12/8/09

Stantec International Incorporated

HYDROLOGIC DATA SHEET

Gauge Date: 12/08/09 **Project Name:** CP RM&R 1344 Blaine

Field Technician: David Reitz **Project Number:** 212301494

DTP = Depth to Free Product (FP or NAPH) Below TOC
DTW = Depth to Groundwater Below TOC
DTB = Depth to Bottom of Well Casing Below TOC

Flow through cell calibrated Y X N___

Wells checked for product and gauged prior to commencement of bailing or purging the wells Y X N___

WELL OR LOCATION	WELL SCREEN DEPTH	PROPOSED INTAKE RANGE (feet below TOC)	MEASUREMENTS				PURGE? (Y/N)	SHEEN? (Y/N)	SAMPLE? (Y/N)	COMMENTS / PROBE CALIBRATION
			TIME	DTP (feet)	DTW (feet)	DTB (feet)				
MW-1		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1240	—	4.80	12.40	N	N	Y	
MW-2A		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1230	—	1.70	14.30	N	N	Y	
MW-3		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1250	—	3.02	12.40	Y	N	Y	
MW-4		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1300	—	2.99	12.30	Y	N	Y	
MW-6		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1225	—	2.95	15.00	N	N	Y	
MW-7		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1310	—	1.78	12.80	Y	N	Y	
MW-8		Within the top half of the encountered water column. Top of screen interval if DTW < Depth to Screen.	1320	—	2.73	12.70	Y	N	Y	

Stantec Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212301494 PURGED BY: DR WELL I.D.: MW-3

CLIENT NAME: COP SAMPLED BY: DR SAMPLE I.D.: MW-3

LOCATION: 247 D Street, Blaine, WA

DATE PURGED 12/8/09 START (2400hr) 1325 END (2400hr) 1350

DATE SAMPLED 12/8/09 SAMPLE TIME (2400hr) 1340 LOW-FLOW USED X

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Casing Volume: (liters per foot) (0.64) (1.44) (2.45) (3.86) (5.68) (9.84) ( )

DEPTH TO BOTTOM (feet) = 12.40

DEPTH TO WATER (feet) = 3.02

WATER COLUMN HEIGHT (feet) = 9.38

ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
12/8/09	1330	500	9.4	0.232	5.27	Clr
"	1333	500	9.2	0.226	5.20	Clr
"	1336	500	9.2	0.221	5.21	Clr
"	1339	500	9.5	0.220	5.23	Clr
					12/8/09	
Calculated Variance of Final Three Samples:			0.3	0.006	0.03	
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1	

DEPTH TO PURGE INTAKE DURING PURGE: 7.00 SAMPLE DTW: 3.48

ANTICIPATED PURGE INTAKE DEPTH: 7.00 ANALYSES: HVOCs; BTEX; MTBE

SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT: Horiba Water meter; Peristaltic pump Interface probe

SAMPLING EQUIPMENT: Peristaltic pump

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO ____

WELL PAD CONDITION: Fair WELL CASING CONDITION: Fair

WELL VAULT CONDITION: Fair SEAL PRESENT?: yes BOLTS PRESENT?: yes

WELL INTEGRITY: Fair WELL TAG: yes LOCK#: yes

REMARKS: ____

SIGNATURE: [signature]

Stantec Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212301494 PURGED BY: DR WELL I.D.: MW-4

CLIENT NAME: COP SAMPLED BY: DR SAMPLE I.D.: MW-4

LOCATION: 247 D Street, Blaine, WA

DATE PURGED 12/8/09 START (2400hr) 1355 END (2400hr) 1420

DATE SAMPLED 12/8/09 SAMPLE TIME (2400hr) 1410 LOW-FLOW USED X

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X (0.64) 3" ____ (1.44) 4" ____ (2.45) 5" ____ (3.86) 6" ____ (5.68) 8" ____ (9.84) Other ____ ( )

Casing Volume: (liters per foot)

DEPTH TO BOTTOM (feet) = 12.30

DEPTH TO WATER (feet) = 2.99

WATER COLUMN HEIGHT (feet) = 9.31

ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (L)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
12/8/09	1400	500	9.9	0.291	5.42	Clr
	1403	500	9.8	0.287	5.41	Clr
	1406	500	9.8	0.286	5.42	Clr
	1409	500	9.8	0.287	5.42	Clr
					12/8/09	

Calculated Variance of Final Three Samples: 0 | 0.001 | 0.01

Acceptable Variance Limits: ≤ 10% | ≤ 3% | ≤ 0.1

DEPTH TO PURGE INTAKE DURING PURGE: 7.00 SAMPLE DTW: 3.58

ANTICIPATED PURGE INTAKE DEPTH: 7.00 ANALYSES: HVOCs; BTEX; MTBE

SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT: Horiba water meter; Peristaltic pump Interface probe

SAMPLING EQUIPMENT: Peristaltic pump

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO ____

WELL PAD CONDITION: Fair WELL CASING CONDITION: Fair

WELL VAULT CONDITION: Fair SEAL PRESENT?: yes BOLTS PRESENT?: yes

WELL INTEGRITY: Fair WELL TAG: yes LOCK#: yes

REMARKS: ____

SIGNATURE: [signature]

Stantec Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212301494 PURGED BY: DR WELL I.D.: MW-8

CLIENT NAME: COP SAMPLED BY: DR SAMPLE I.D.: MW-8

LOCATION: 247 D Street, Blaine, WA

DATE PURGED 12/8/09 START (2400hr) 1420 END (2400hr) 1445

DATE SAMPLED 12/8/09 SAMPLE TIME (2400hr) 1435 LOW-FLOW USED X

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X 3" ____ 4" ____ 5" ____ 6" ____ 8" ____ Other ____

Casing Volume: (liters per foot) (0.64) (1.44) (2.45) (3.86) (5.68) (9.84) ( )

DEPTH TO BOTTOM (feet) = 12.70

DEPTH TO WATER (feet) = 2.73

WATER COLUMN HEIGHT (feet) = 9.97 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
12/8/09	1425	500	7.3	0.346	5.63	Clr
↓	1428	500	7.9	0.341	5.50	Clr
↓	1431	500	8.7	0.335	5.47	Clr
↓	1434	500	8.8	0.332	5.49	Clr
					12/8/09	
Calculated Variance of Final Three Samples:			0.9	0.011	0.03	
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1	

DEPTH TO PURGE INTAKE DURING PURGE: 8.00 SAMPLE DTW: 3.00

ANTICIPATED PURGE INTAKE DEPTH: 8.00 ANALYSES: HVOCs; BTEX; MTBE

SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT: Horiba water meter, Peristaltic pump / Interface probe

SAMPLING EQUIPMENT: Peristaltic pump

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO ____

WELL PAD CONDITION: Fair WELL CASING CONDITION: Fair

WELL VAULT CONDITION: Fair SEAL PRESENT?: yes BOLTS PRESENT?: yes

WELL INTEGRITY: Fair WELL TAG: yes LOCK#: yes

REMARKS: ____

SIGNATURE: [signature]

Stantec Consulting Corporation

WATER SAMPLE FIELD DATA SHEET

PROJECT #: 212301494 PURGED BY: DR WELL I.D.: MW-7

CLIENT NAME: COP SAMPLED BY: DR SAMPLE I.D.: MW-7

LOCATION: 247 D Street, Blaine, WA

DATE PURGED 12/8/09 START (2400hr) 1450 END (2400hr) 1520

DATE SAMPLED 12/8/09 SAMPLE TIME (2400hr) 1505 LOW-FLOW USED x

SAMPLE TYPE: Groundwater X Surface Water ____ Treatment Effluent ____ Other ____

CASING DIAMETER: 2" X (0.64) 3" ____ (1.44) 4" ____ (2.45) 5" ____ (3.86) 6" ____ (5.68) 8" ____ (9.84) Other ____ ( )

Casing Volume: (liters per foot)

DEPTH TO BOTTOM (feet) = 12.80

DEPTH TO WATER (feet) = 1.78

WATER COLUMN HEIGHT (feet) = 11.02 ACTUAL PURGE (L) = 2.5

FIELD MEASUREMENTS

DATE	TIME (2400hr)	VOLUME (mL)	TEMP. (degrees C)	CONDUCTIVITY (umhos/cm)	pH (units)	COLOR (visual)
12/8/09	1455	500	8.2	0.422	5.63	Clr
	1458	500	9.1	0.411	5.69	Clr
	1501	500	9.7	0.405	5.76	Clr
	1504	500	10.0	0.402	5.79	Clr
					12/8/09	
Calculated Variance of Final Three Samples:			0.9	0.009	0.10	
Acceptable Variance Limits:			≤ 10%	≤ 3%	≤ 0.1	

DEPTH TO PURGE INTAKE DURING PURGE: 8.00 SAMPLE DTW: 1.80

ANTICIPATED PURGE INTAKE DEPTH: 8.00 ANALYSES: HVOCs; BTEX; MTBE

SAMPLE VESSEL / PRESERVATIVE: ____

PURGING EQUIPMENT: Horiba water meter; Peristaltic pump; Interface probe

SAMPLING EQUIPMENT: Peristaltic pump

Flow Through Cell Disconnected Prior to Sample Collection?: YES X NO ____

WELL PAD CONDITION: Fair WELL CASING CONDITION: Fair

WELL VAULT CONDITION: Fair SEAL PRESENT?: YES BOLTS PRESENT?: YES

WELL INTEGRITY: Fair WELL TAG: YES LOCK#: YES

REMARKS: ____

SIGNATURE: [signature]

Chain Of Custody Record

Pace Analytical Laboratories
940 S. Harney Street, Seattle WA
(206) 767-5063

INVOICE REMITTANCE ADDRESS:
Stantec
Attn: Chris Gdak 12034
134th Court NE Suite
Redmond, WA 98052

Purchase Order #:

ConocoPhillips AOC#: 01344

DATE: 12/08/09
PAGE: 1 of 1

SAMPLING COMPANY: Stantec	**Valid Value ID:**	**CONOCOPHILLIPS SITE NUMBER:** 255028	**GLOBAL ID NO.:**
ADDRESS: 12034 134th Court NE, Suite 102, Redmond, WA 98052		**SITE ADDRESS (Street and City):** 247 D Street, Blaine, WA	**ConocoPhillips Manager:** Myron Smith
PROJECT CONTACT (Hardcopy or PDF Report to): Chris Gdak		**EDF DELIVERABLE TO (RP or Designee):**	**PHONE NO.:** / **E-MAIL:** / **LAB USE ONLY**
TELEPHONE: (425) 298-1023	**FAX:** (425) 298-1020	**E-MAIL:** chris.gdak@stantec.com	
SAMPLER NAME(S) (Print): David Reitz	**CONSULTANT PROJECT NUMBER:** 212301494		

TURNAROUND TIME (CALENDAR DAYS):
☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES:

CHECK BOX IF EDD IS NEEDED ☑

REQUESTED ANALYSES

* Field Point name only required if different from Sample ID

LAB USE ONLY	Field Point Name	Sample ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	HVOCs by 8260B	BTEX by 8260B	MTBE by 8260B	TEMPERATURE ON RECEIPT C°
	MW-3	MW-3	12/08/09	1340	GW	6	X	X	X	
	MW-4	MW-4	"	1410	GW	6	X	X	X	
	MW-7	MW-7	"	1505	GW	6	X	X	X	
	MW-8	MW-8	"	1435	GW	6	X	X	X	
	---	TB				6	X	X	X	

FIELD NOTES:
Container/Preservative or PID Readings or Laboratory Notes

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Stanley Paine		12/10/09	9:30
Relinquished by: (Signature)	Received by: (Signature) JENNI GROSS/PACE	Date: 12/10/09	Time: 12:00
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

9/10/03 Revision

ATTACHMENT C
CERTIFIED LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY DOCUMENTATION

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
940 South Harney
Seattle, WA 98108
(206)767-5060

December 17, 2009

Chris Gdak
Stantec
12034 134th Ct NE, Suite 102
Redmond, WA 98052

RE: Project: 01344 - Blaine
Pace Project No.: 252638

Dear Chris Gdak:
Enclosed are the analytical results for sample(s) received by the laboratory on December 10, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

One of six VOA vials were received broken. Four of six VOA vials were received out of EPA compliance for head space. The client was notified via email on 12/10/09.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross

jennifer.gross@pacelabs.com
Project Manager

Enclosures

cc: Andrea Donnell, COP_Stantec Washington
Tammy Parise, COP_Stantec Washington
Linda Rawlins, COP_Stantec Oregon

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Seattle, WA 98108
(206)767-5060

CERTIFICATIONS

Project: 01344 - Blaine
Pace Project No.: 252638

Washington Certification IDs
940 South Harney Street Seattle, WA 98108
Washington Certification #: C1229
Oregon Certification #: WA200007
Alaska CS Certification #: UST-025
California Certification #: 01153CA
Alaska Drinking Water Micro Certification #: WA01230
Alaska Drinking Water VOC Certification #: WA01-09
Florida/NELAP Certification #: E87617

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(206)767-5060

SAMPLE ANALYTE COUNT

Project: 01344 - Blaine
Pace Project No.: 252638

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
252638001	**MW-3**	EPA 5030B/8260	LNH	39	PASI-S
252638002	**MW-4**	EPA 5030B/8260	LNH	39	PASI-S
252638003	**MW-7**	EPA 5030B/8260	LNH	39	PASI-S
252638004	**MW-8**	EPA 5030B/8260	LNH	39	PASI-S
252638005	**TB**	EPA 5030B/8260	LNH	39	PASI-S

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Seattle, WA 98108
(206)767-5060

ANALYTICAL RESULTS

Project: 01344 - Blaine
Pace Project No.: 252638

Sample: MW-3 **Lab ID: 252638001** Collected: 12/08/09 13:40 Received: 12/10/09 12:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/11/09 12:16	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/11/09 12:16	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/11/09 12:16	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/11/09 12:16	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/11/09 12:16	75-35-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/11/09 12:16	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/11/09 12:16	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/11/09 12:16	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/11/09 12:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/11/09 12:16	106-46-7	
Benzene	ND	ug/L	1.0	1		12/11/09 12:16	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		12/11/09 12:16	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/11/09 12:16	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/11/09 12:16	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		12/11/09 12:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/11/09 12:16	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/11/09 12:16	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/11/09 12:16	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/11/09 12:16	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		12/11/09 12:16	124-48-1	
Ethylbenzene	ND	ug/L	1.0	1		12/11/09 12:16	100-41-4	
Methyl-tert-butyl ether	**1.0**	ug/L	1.0	1		12/11/09 12:16	1634-04-4	
Methylene chloride	ND	ug/L	4.0	1		12/11/09 12:16	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		12/11/09 12:16	127-18-4	
Toluene	ND	ug/L	1.0	1		12/11/09 12:16	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		12/11/09 12:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/11/09 12:16	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		12/11/09 12:16	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/11/09 12:16	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/11/09 12:16	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/11/09 12:16	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		12/11/09 12:16	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		12/11/09 12:16	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/11/09 12:16	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/11/09 12:16	10061-02-6	
4-Bromofluorobenzene (S)	94	%	80-120	1		12/11/09 12:16	460-00-4	
Dibromofluoromethane (S)	109	%	80-122	1		12/11/09 12:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	80-124	1		12/11/09 12:16	17060-07-0	
Toluene-d8 (S)	103	%	80-123	1		12/11/09 12:16	2037-26-5	

Sample: MW-4 **Lab ID: 252638002** Collected: 12/08/09 14:10 Received: 12/10/09 12:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/11/09 12:36	71-55-6	

REPORT OF LABORATORY ANALYSIS

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Seattle, WA 98108
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ANALYTICAL RESULTS

Project: 01344 - Blaine
Pace Project No.: 252638

Sample: MW-4 **Lab ID: 252638002** Collected: 12/08/09 14:10 Received: 12/10/09 12:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/11/09 12:36	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/11/09 12:36	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/11/09 12:36	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/11/09 12:36	75-35-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/11/09 12:36	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/11/09 12:36	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/11/09 12:36	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/11/09 12:36	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/11/09 12:36	106-46-7	
Benzene	ND	ug/L	1.0	1		12/11/09 12:36	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		12/11/09 12:36	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/11/09 12:36	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/11/09 12:36	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		12/11/09 12:36	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/11/09 12:36	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/11/09 12:36	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/11/09 12:36	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/11/09 12:36	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		12/11/09 12:36	124-48-1	
Ethylbenzene	ND	ug/L	1.0	1		12/11/09 12:36	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/11/09 12:36	1634-04-4	
Methylene chloride	ND	ug/L	4.0	1		12/11/09 12:36	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		12/11/09 12:36	127-18-4	
Toluene	ND	ug/L	1.0	1		12/11/09 12:36	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		12/11/09 12:36	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/11/09 12:36	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		12/11/09 12:36	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/11/09 12:36	1330-20-7	
cis-1,2-Dichloroethene	**11.1**	ug/L	1.0	1		12/11/09 12:36	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/11/09 12:36	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		12/11/09 12:36	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		12/11/09 12:36	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/11/09 12:36	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/11/09 12:36	10061-02-6	
4-Bromofluorobenzene (S)	98	%	80-120	1		12/11/09 12:36	460-00-4	
Dibromofluoromethane (S)	110	%	80-122	1		12/11/09 12:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	113	%	80-124	1		12/11/09 12:36	17060-07-0	
Toluene-d8 (S)	105	%	80-123	1		12/11/09 12:36	2037-26-5	

Sample: MW-7 **Lab ID: 252638003** Collected: 12/08/09 15:05 Received: 12/10/09 12:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/11/09 12:56	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/11/09 12:56	79-34-5	

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ANALYTICAL RESULTS

Project: 01344 - Blaine
Pace Project No.: 252638

Sample: MW-7 **Lab ID: 252638003** Collected: 12/08/09 15:05 Received: 12/10/09 12:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/11/09 12:56	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/11/09 12:56	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/11/09 12:56	75-35-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/11/09 12:56	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/11/09 12:56	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/11/09 12:56	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/11/09 12:56	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/11/09 12:56	106-46-7	
Benzene	**2.3**	ug/L	1.0	1		12/11/09 12:56	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		12/11/09 12:56	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/11/09 12:56	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/11/09 12:56	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		12/11/09 12:56	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/11/09 12:56	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/11/09 12:56	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/11/09 12:56	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/11/09 12:56	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		12/11/09 12:56	124-48-1	
Ethylbenzene	ND	ug/L	1.0	1		12/11/09 12:56	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/11/09 12:56	1634-04-4	
Methylene chloride	ND	ug/L	4.0	1		12/11/09 12:56	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		12/11/09 12:56	127-18-4	
Toluene	ND	ug/L	1.0	1		12/11/09 12:56	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		12/11/09 12:56	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/11/09 12:56	75-69-4	
Vinyl chloride	**2.1**	ug/L	0.20	1		12/11/09 12:56	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/11/09 12:56	1330-20-7	
cis-1,2-Dichloroethene	**1.4**	ug/L	1.0	1		12/11/09 12:56	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/11/09 12:56	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		12/11/09 12:56	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		12/11/09 12:56	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/11/09 12:56	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/11/09 12:56	10061-02-6	
4-Bromofluorobenzene (S)	102	%	80-120	1		12/11/09 12:56	460-00-4	
Dibromofluoromethane (S)	109	%	80-122	1		12/11/09 12:56	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	80-124	1		12/11/09 12:56	17060-07-0	
Toluene-d8 (S)	106	%	80-123	1		12/11/09 12:56	2037-26-5	

Sample: MW-8 **Lab ID: 252638004** Collected: 12/08/09 14:35 Received: 12/10/09 12:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/11/09 13:16	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/11/09 13:16	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/11/09 13:16	79-00-5	

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ANALYTICAL RESULTS

Project: 01344 - Blaine
Pace Project No.: 252638

Sample: MW-8 **Lab ID: 252638004** Collected: 12/08/09 14:35 Received: 12/10/09 12:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1-Dichloroethane	ND	ug/L	1.0	1		12/11/09 13:16	75-34-3	
1,1-Dichloroethene	ND	ug/L	1.0	1		12/11/09 13:16	75-35-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/11/09 13:16	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/11/09 13:16	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/11/09 13:16	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/11/09 13:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/11/09 13:16	106-46-7	
Benzene	ND	ug/L	1.0	1		12/11/09 13:16	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		12/11/09 13:16	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/11/09 13:16	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/11/09 13:16	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		12/11/09 13:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/11/09 13:16	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/11/09 13:16	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/11/09 13:16	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/11/09 13:16	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		12/11/09 13:16	124-48-1	
Ethylbenzene	ND	ug/L	1.0	1		12/11/09 13:16	100-41-4	
Methyl-tert-butyl ether	**5.4**	ug/L	1.0	1		12/11/09 13:16	1634-04-4	
Methylene chloride	ND	ug/L	4.0	1		12/11/09 13:16	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		12/11/09 13:16	127-18-4	
Toluene	ND	ug/L	1.0	1		12/11/09 13:16	108-88-3	
Trichloroethene	**1.5**	ug/L	1.0	1		12/11/09 13:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/11/09 13:16	75-69-4	
Vinyl chloride	**0.31**	ug/L	0.20	1		12/11/09 13:16	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/11/09 13:16	1330-20-7	
cis-1,2-Dichloroethene	**6.7**	ug/L	1.0	1		12/11/09 13:16	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/11/09 13:16	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		12/11/09 13:16	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		12/11/09 13:16	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/11/09 13:16	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/11/09 13:16	10061-02-6	
4-Bromofluorobenzene (S)	95	%	80-120	1		12/11/09 13:16	460-00-4	
Dibromofluoromethane (S)	108	%	80-122	1		12/11/09 13:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%	80-124	1		12/11/09 13:16	17060-07-0	
Toluene-d8 (S)	105	%	80-123	1		12/11/09 13:16	2037-26-5	

Sample: TB **Lab ID: 252638005** Collected: 12/08/09 00:00 Received: 12/10/09 12:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1,1-Trichloroethane	ND	ug/L	1.0	1		12/11/09 11:54	71-55-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	1		12/11/09 11:54	79-34-5	
1,1,2-Trichloroethane	ND	ug/L	1.0	1		12/11/09 11:54	79-00-5	
1,1-Dichloroethane	ND	ug/L	1.0	1		12/11/09 11:54	75-34-3	

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ANALYTICAL RESULTS

Project: 01344 - Blaine
Pace Project No.: 252638

Sample: TB **Lab ID: 252638005** Collected: 12/08/09 00:00 Received: 12/10/09 12:00 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 5030B/8260							
1,1-Dichloroethene	ND	ug/L	1.0	1		12/11/09 11:54	75-35-4	
1,2-Dichlorobenzene	ND	ug/L	1.0	1		12/11/09 11:54	95-50-1	
1,2-Dichloroethane	ND	ug/L	1.0	1		12/11/09 11:54	107-06-2	
1,2-Dichloropropane	ND	ug/L	1.0	1		12/11/09 11:54	78-87-5	
1,3-Dichlorobenzene	ND	ug/L	1.0	1		12/11/09 11:54	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	1		12/11/09 11:54	106-46-7	
Benzene	ND	ug/L	1.0	1		12/11/09 11:54	71-43-2	
Bromodichloromethane	ND	ug/L	1.0	1		12/11/09 11:54	75-27-4	
Bromoform	ND	ug/L	1.0	1		12/11/09 11:54	75-25-2	
Bromomethane	ND	ug/L	1.0	1		12/11/09 11:54	74-83-9	
Carbon tetrachloride	ND	ug/L	1.0	1		12/11/09 11:54	56-23-5	
Chlorobenzene	ND	ug/L	1.0	1		12/11/09 11:54	108-90-7	
Chloroethane	ND	ug/L	1.0	1		12/11/09 11:54	75-00-3	
Chloroform	ND	ug/L	1.0	1		12/11/09 11:54	67-66-3	
Chloromethane	ND	ug/L	1.0	1		12/11/09 11:54	74-87-3	
Dibromochloromethane	ND	ug/L	1.0	1		12/11/09 11:54	124-48-1	
Ethylbenzene	ND	ug/L	1.0	1		12/11/09 11:54	100-41-4	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		12/11/09 11:54	1634-04-4	
Methylene chloride	ND	ug/L	4.0	1		12/11/09 11:54	75-09-2	
Tetrachloroethene	ND	ug/L	1.0	1		12/11/09 11:54	127-18-4	
Toluene	ND	ug/L	1.0	1		12/11/09 11:54	108-88-3	
Trichloroethene	ND	ug/L	1.0	1		12/11/09 11:54	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	1		12/11/09 11:54	75-69-4	
Vinyl chloride	ND	ug/L	0.20	1		12/11/09 11:54	75-01-4	
Xylene (Total)	ND	ug/L	3.0	1		12/11/09 11:54	1330-20-7	
cis-1,2-Dichloroethene	ND	ug/L	1.0	1		12/11/09 11:54	156-59-2	
cis-1,3-Dichloropropene	ND	ug/L	1.0	1		12/11/09 11:54	10061-01-5	
m&p-Xylene	ND	ug/L	2.0	1		12/11/09 11:54	1330-20-7	
o-Xylene	ND	ug/L	1.0	1		12/11/09 11:54	95-47-6	
trans-1,2-Dichloroethene	ND	ug/L	1.0	1		12/11/09 11:54	156-60-5	
trans-1,3-Dichloropropene	ND	ug/L	1.0	1		12/11/09 11:54	10061-02-6	
4-Bromofluorobenzene (S)	94	%	80-120	1		12/11/09 11:54	460-00-4	
Dibromofluoromethane (S)	110	%	80-122	1		12/11/09 11:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	112	%	80-124	1		12/11/09 11:54	17060-07-0	
Toluene-d8 (S)	105	%	80-123	1		12/11/09 11:54	2037-26-5	

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QUALITY CONTROL DATA

Project: 01344 - Blaine
Pace Project No.: 252638

QC Batch: MSV/1786 Analysis Method: EPA 5030B/8260
QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge
Associated Lab Samples: 252638001, 252638002, 252638003, 252638004, 252638005

METHOD BLANK: 17183 Matrix: Water
Associated Lab Samples: 252638001, 252638002, 252638003, 252638004, 252638005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	12/11/09 11:31	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	12/11/09 11:31	
1,1,2-Trichloroethane	ug/L	ND	1.0	12/11/09 11:31	
1,1-Dichloroethane	ug/L	ND	1.0	12/11/09 11:31	
1,1-Dichloroethene	ug/L	ND	1.0	12/11/09 11:31	
1,2-Dichlorobenzene	ug/L	ND	1.0	12/11/09 11:31	
1,2-Dichloroethane	ug/L	ND	1.0	12/11/09 11:31	
1,2-Dichloropropane	ug/L	ND	1.0	12/11/09 11:31	
1,3-Dichlorobenzene	ug/L	ND	1.0	12/11/09 11:31	
1,4-Dichlorobenzene	ug/L	ND	1.0	12/11/09 11:31	
Benzene	ug/L	ND	1.0	12/11/09 11:31	
Bromodichloromethane	ug/L	ND	1.0	12/11/09 11:31	
Bromoform	ug/L	ND	1.0	12/11/09 11:31	
Bromomethane	ug/L	ND	1.0	12/11/09 11:31	
Carbon tetrachloride	ug/L	ND	1.0	12/11/09 11:31	
Chlorobenzene	ug/L	ND	1.0	12/11/09 11:31	
Chloroethane	ug/L	ND	1.0	12/11/09 11:31	
Chloroform	ug/L	ND	1.0	12/11/09 11:31	
Chloromethane	ug/L	ND	1.0	12/11/09 11:31	
cis-1,2-Dichloroethene	ug/L	ND	1.0	12/11/09 11:31	
cis-1,3-Dichloropropene	ug/L	ND	1.0	12/11/09 11:31	
Dibromochloromethane	ug/L	ND	1.0	12/11/09 11:31	
Ethylbenzene	ug/L	ND	1.0	12/11/09 11:31	
m&p-Xylene	ug/L	ND	2.0	12/11/09 11:31	
Methyl-tert-butyl ether	ug/L	ND	1.0	12/11/09 11:31	
Methylene chloride	ug/L	ND	4.0	12/11/09 11:31	
o-Xylene	ug/L	ND	1.0	12/11/09 11:31	
Tetrachloroethene	ug/L	ND	1.0	12/11/09 11:31	
Toluene	ug/L	ND	1.0	12/11/09 11:31	
trans-1,2-Dichloroethene	ug/L	ND	1.0	12/11/09 11:31	
trans-1,3-Dichloropropene	ug/L	ND	1.0	12/11/09 11:31	
Trichloroethene	ug/L	ND	1.0	12/11/09 11:31	
Trichlorofluoromethane	ug/L	ND	1.0	12/11/09 11:31	
Vinyl chloride	ug/L	ND	0.20	12/11/09 11:31	
Xylene (Total)	ug/L	ND	3.0	12/11/09 11:31	
1,2-Dichloroethane-d4 (S)	%	112	80-124	12/11/09 11:31	
4-Bromofluorobenzene (S)	%	94	80-120	12/11/09 11:31	
Dibromofluoromethane (S)	%	110	80-122	12/11/09 11:31	
Toluene-d8 (S)	%	104	80-123	12/11/09 11:31	

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QUALITY CONTROL DATA

Project: 01344 - Blaine
Pace Project No.: 252638

LABORATORY CONTROL SAMPLE & LCSD: 17184 17185

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.0	19.7	105	98	69-135	6	30	
1,1,2,2-Tetrachloroethane	ug/L	20	17.6	18.1	88	90	69-123	3	30	
1,1,2-Trichloroethane	ug/L	20	17.7	18.0	88	90	76-114	2	30	
1,1-Dichloroethane	ug/L	20	18.9	17.8	94	89	74-124	6	30	
1,1-Dichloroethene	ug/L	20	20.1	19.0	101	95	69-139	6	30	
1,2-Dichlorobenzene	ug/L	20	19.2	18.5	96	92	74-118	4	30	
1,2-Dichloroethane	ug/L	20	20.6	20.6	103	103	73-127	.1	30	
1,2-Dichloropropane	ug/L	20	18.5	18.3	92	91	72-126	1	30	
1,3-Dichlorobenzene	ug/L	20	19.4	19.1	97	96	73-119	1	30	
1,4-Dichlorobenzene	ug/L	20	19.1	19.1	95	95	73-115	.04	30	
Benzene	ug/L	20	20.0	19.4	100	97	75-124	3	30	
Bromodichloromethane	ug/L	20	18.3	17.7	92	89	77-126	3	30	
Bromoform	ug/L	20	18.0	17.6	90	88	61-131	2	30	
Bromomethane	ug/L	20	25.7	24.2	128	121	58-139	6	30	
Carbon tetrachloride	ug/L	20	21.8	20.4	109	102	67-136	7	30	
Chlorobenzene	ug/L	20	19.7	19.0	98	95	78-115	4	30	
Chloroethane	ug/L	20	23.5	22.0	118	110	58-137	7	30	
Chloroform	ug/L	20	20.4	19.6	102	98	75-124	4	30	
Chloromethane	ug/L	20	18.4	16.7	92	84	50-129	10	30	
cis-1,2-Dichloroethene	ug/L	20	21.5	20.7	107	103	78-126	4	30	
cis-1,3-Dichloropropene	ug/L	20	17.5	17.5	87	88	78-159	.3	30	
Dibromochloromethane	ug/L	20	18.7	19.0	94	95	81-125	1	30	
Ethylbenzene	ug/L	20	19.9	19.1	99	95	76-124	4	30	
m&p-Xylene	ug/L	40	42.2	40.0	106	100	75-124	5	30	
Methyl-tert-butyl ether	ug/L	20	18.2	17.5	91	88	72-130	4	30	
Methylene chloride	ug/L	20	19.3	18.4	97	92	69-124	5	30	
o-Xylene	ug/L	20	21.3	20.1	107	100	76-121	6	30	
Tetrachloroethene	ug/L	20	19.2	18.3	96	92	70-127	5	30	
Toluene	ug/L	20	20.0	18.9	100	95	75-124	5	30	
trans-1,2-Dichloroethene	ug/L	20	21.0	19.8	105	99	72-129	6	30	
trans-1,3-Dichloropropene	ug/L	20	14.2	14.4	71	72	69-122	1	30	
Trichloroethene	ug/L	20	18.4	17.7	92	89	78-124	4	30	
Trichlorofluoromethane	ug/L	20	27.2	25.6	136	128	60-147	6	30	
Vinyl chloride	ug/L	20	22.1	20.5	111	102	56-136	8	30	
Xylene (Total)	ug/L	60	63.5	60.1	106	100	76-123	6	30	
1,2-Dichloroethane-d4 (S)	%				109	110	80-124			
4-Bromofluorobenzene (S)	%				93	102	80-120			
Dibromofluoromethane (S)	%				110	108	80-122			
Toluene-d8 (S)	%				106	106	80-123			

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(206)767-5060

QUALIFIERS

Project: 01344 - Blaine
Pace Project No.: 252638

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-S Pace Analytical Services - Seattle

BATCH QUALIFIERS

Batch: MSV/1786

[1] LCS/LCSD were performed in lieu of an MS/MSD due to insufficient sample volume provided.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 01344 - Blaine
Pace Project No.: 252638

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
252638001	**MW-3**	EPA 5030B/8260	MSV/1786		
252638002	**MW-4**	EPA 5030B/8260	MSV/1786		
252638003	**MW-7**	EPA 5030B/8260	MSV/1786		
252638004	**MW-8**	EPA 5030B/8260	MSV/1786		
252638005	**TB**	EPA 5030B/8260	MSV/1786		